ust about every ACC base experi- your base and community. It is imporoutcomes of severe thunderstorms and activities. some of the hurricanes that make landfall. No matter what Mother Nature places. These will be different dependdishes out, there are safety precautions ing on the emergency. For high wind and preparations all ACC personnel can threats at home (not a mobile home),

nually to property and crops.

As military members we have way is the safest place. an obligation to protect our families and homes, as well as our work spaces and shelter outside of the home (commuequipment. We must also be account- nity shelter, nearby basement or sturdy able to our chains of command for our building) and make sure all family memwhereabouts during severe weather bers know to leave immediately. This events. Education and preparation are would also be a good time to designate the keys to saving lives and reducing a meeting area outside the home for an property damage.

hazards associated with your local fire versus tornado). area and the warning signs of each one. Contact your base weather or nado Alley" or in a high wind or severe disaster preparedness shop, the local weather area that is prone to tornado gency management or civil defense consider building a storm shelter inoffice, or American Red Cross chapter. side your home. FEMA provides an The Federal Emergency Management information booklet entitled: "Taking Agency (FEMA) and the Department of Shelter from the Storm: Building a Homeland Security provide a great deal Safe Room inside Your House" at http: of information concerning the threat to //www.fema.gov/pdf/fima/fema320.pdf . The life and property from natural disasters, booklet explains that "having a shelter, how to identify them, how to protect or a safe room, built into your house can against and prepare for them and the help you protect yourself and your family disaster event occurs online at http://gerous forces of extreme winds. It can //www.ready.gov/natural_disasters.html, and also relieve some of the anxiety created http://www.fema.gov/areyouready/. You can by the threat of an oncoming tornado or also find a lot of information on the inter- hurricane." Prior to building a shelter in net at sites like: http://iwin.nws.noaa.gov/ your house, FEMA recommends that you vehicle is out of the driver's control. iwin/nationalwarnings.html, and http: first consider your location (i.e., are you //nssl.noaa.gov.

evacuation plans that will be used by winds, what level of safety do you want

ences some type of severe weather tant to know the name of the county or each year. Tornadoes, heavy rains parish in which you live because that's that can lead to flooding – including flash how watches and warnings are issued. floods, storm surges, large hail (3/4 of Once you have collected this informaan inch or larger), lightning, and straight- tion, call a family meeting to discuss line winds gusting in access of 50 knots it and develop a family disaster plan or 57.5 miles per hour are all potential for home, work, school, and outdoor

Designate emergency meeting Weather threats are very real. many walls as possible between you An average of 800 to 1,000 tornadoes and the outside. Make sure the area occur each year, resulting in 80 deaths is uncluttered, but has a sturdy object are responsible for 146 deaths annu- ily members from falling objects. Do ally. Lightning kills 75 to 100 people not choose an area that has windows each year. Large hail can reach the or glass doors. Always use your arms size of a grapefruit and causes several and hands to protect your head and hundred million dollars in damage an- neck from falling or flying objects. If

emergency such as a fire, but be sure Shortly after arriving at a base, to distinguish to younger children the

living in a high risk area), how quickly Learn the warning signals and you can reach safe shelter during extreme

to provide and cost considerations of building a shelter. The booklet provides construction plans, cost estimates as well as engineering results on the effects of severe winds on building construction conducted by Texas Tech University's Wind Engineering Research Center.

If family members find themselves outside during high wind threats, they need to seek immediate shelter in a nearby basement or sturdy building. If shelter is not available, lie flat in a lowlying area that is not prone to flooding. take to minimize the danger and/or dam- designate a basement or ground floor. If you are on the road, do not try to outinterior hallway or room that puts as drive the threat. Leave your vehicle immediately and seek shelter, but not under overpasses and bridges.

If the threat is lightning, family and over 1,500 injuries. Flash floods such as a heavy table to protect fam- members should remain in their vehicles. If outside, they need to leave summits of mountains, crests of ridges, slopes above the timberline or large meadows/open spaces. They should descend to a lower elevation, squat down, or kneel down you live in a high rise, the center hall- on a pad with your feet close together to minimize contact with the ground, For a mobile home, designate a and keep your head low. Dense forest located in a depression provides the best protection. Avoid isolated trees, trees much taller than adjacent trees, shallow caves, overhanging rocks, water, metal fences, and power lines. If in a group, spread out at least 100 feet apart. Follow the "30-30" rule: Take shelter if the time from seeing a flash to the time you gather information about the weather difference between safe places (e.g., hear thunder is 30 seconds or less and don't resume activities until 30 minutes If you are building a home in "Tor- have elapsed from the last lightning and

For flooding threats, always know National Weather Service office, emer- or hurricane events you may want to where you are and how to get to higher ground. Solitary storms that move through an area in 20 minutes or so do not present a high flash flood threat, however, take note to stay away from natural and man-made drainage areas. Watch for an increase in speed or volume of stream flow and never attempt to cross water that is over knee deep. As little as 6 inches can sweep you off your feet, so actions you can take after a natural from injury or death caused by the dan- don't underestimate the power of moving water. Never drive into water if you don't know exactly how deep the water is. It only takes 18 to 24 inches of water to float most motor vehicles and then the

> Now that you have established where the safe places are and how to get there in a weather emergency, it's time to discuss evacuation plans. Take into



consideration the special needs of your family (e.g., infants, elderly, disabled, and pets) when making your plans. Discuss what everyone's responsibilities would be in the event that local officials order an evacuation and emphasize the importance of following evacuation orders. Designate primary and secondary evacuation locations outside the threat area. Choose a friend or family member outside of the threat area as a "familycheck-in contact" for everyone to call if the family gets separated.

Once you've determined what actions your family will take at home, on the road, and outside for the different weather hazards, it's important to get the same information for family workplaces, schools, and day care centers. When your family's plan is in place, it is imperative that you pass that information onto your supervisor. At a minimum, provide the names of family members who will be evacuating with you, primary and secondary evacuation locations outside of the threat area, "family-check-in contact," and any additional information that will help the military locate you in the event of an emergency or evacuation. Supervisors, make sure you have this information on all your individuals. A basegenerated form is an ideal tool for collecting this information. All military personnel have a responsibility to maintain contact with their chains of command.

Make outdoor preparations. There are many things we can do before a severe weather event to minimize injuries and damages. Look around your yard. Make trees more wind resistant by removing diseased or damaged limbs or, if necessary, remove entire trees. Determine what areas of your home are prone to flooding and prepare enough sandbags to protect them. Secure loose rain gutters and downspouts and try to keep them clean year round. Install permanent shutters on windows and doors -- especially sliding glass doors. As an alternative, you can attach anchors for pre-cut ½ inch plywood boards with predrilled holes. Have an engineer check your home and advise you about ways to make it more wind resistant. This can include strengthening garage doors, Photo Illustration By: SrA Alex Sotak reinforcing your pre-designated safe room, or even elevating coastal homes. If you live in a manufactured home, recheck and reinforce tie-downs. Finally, make sure your insurance policies are adequate for the weather hazards you might encounter. Make indoor preparations. Start

by posting important emergency phone family member to learn basic safety meanumbers. Include base numbers that sures (e.g., CPR, first aid, fire extinguishyou will use to maintain contact with er use, how and when to turn off the your chain of command. Inspect your water, gas, and electricity in your home). plan will not serve you and your family home for potential hazards (i.e., items Just remember, if you turn off the gas, it that can move, fall, break, or catch fire) and correct them. Install safety features on which may take several weeks to hap- about meeting places, phone numbers, such as smoke detectors and fire extin- pen after a disaster. Another time saver guishers. Assemble 3-day disaster supply kits in sturdy, easy-to-carry contain- to be done just before a severe weather ers like backpacks or duffle bags.

Supplies should include:

- per day)
- One change of clothing and footwear per person
- First-aid kit (include prescription medicines)
- Emergency tools
- NOAA Weather Radio with warning alarm tone and battery back-up
- Portable radio
- Flashlights (one per person; avoid using candles or kerosene lamps)
- Extra batteries
- •• Extra set of car keys

- Credit cards and cash
- Cards, games, books
- Specialty items for infants, elderly, disabled, pets
- Waterproof container for important family documents

It is also a very good idea for each might take a professional to turn it back is to make a list of things that only need event occurs.

•• Water (one gallon per person This would include some of the follow- and food every 6 months. ing items:

- furniture, outdoor decorations or pared and plan to be safe! ornaments, trash cans, hanging plants, outside antennas, etc.)
- doors
- Place sandbags around flood sites: prone areas of your home
- •• If you own a boat, moor it se- ing safety.html, curely or move it to a designated safe place
- Turn off propane tanks
- Turn refrigerator/freezer to coldest setting

- Unplug appliances that may be affected by power surges as the storm approaches or after power is restored
- Store drinking water in clean bathtubs, sinks, plastic bottles, and cooking utensils (this is usually the greatest need following a disaster)
- Fill car gas tank and a tank for your generator (if you have one)

Maintain your plan. Having a great well if no one remembers what to do. Have frequent drills. Ask questions and safety rules. Test smoke detectors monthly and change the batteries at least once a year. Test and recharge fire extinguishers according to manufacturer's instructions. Replace stored water

Severe weather is a possibility no • Secure outside items (i.e., lawn matter where you are stationed. Be pre-

Resources used to create this article: Talking About Disaster: Guide for Standard •• Close and board all windows and Messages by National Disaster Education Coalition, Washington DC, 1999. Web-

http://cimms.ou.edu/~doswell/tstm_camp-

http://www.nssl.noaa.gov/NWSTornado/ http://www.education.noaa.gov/cweather.html



Photo By: TSgt Bill Kimble



Photo By: TSgt Ben Bloker

